

**IN THE UNITED STATES DISTRICT COURT  
FOR THE EASTERN DISTRICT OF TEXAS  
MARSHALL DIVISION**

POWER MANAGEMENT ENTERPRISES, LLC, a )	)	
Texas Limited Liability Company,	)	
	)	
Plaintiff,	)	
	)	
v.	)	Civil Action No.
	)	
SONY CORPORATION OF AMERICA, a New )	)	
York corporation,	)	
	)	
Defendant.	)	

**COMPLAINT**

Plaintiff Power Management Enterprises, LLC (“PME”) files this, its Complaint against Sony Corporation of America (“Sony”), showing this Honorable Court as follows.

**NATURE OF THE ACTION**

1. This is an action for patent infringement, arising out of Defendant’s infringement of a U.S. patent relating to the art of managing cache memory containing data that has not been committed to persistent storage. Specifically, this Complaint asserts claims against Defendant arising from its infringement of various claims in U.S. Pat. No. 5,895,488, issued on April 20, 1999, and entitled “CACHE FLUSHING METHODS AND APPARATUS” (the “‘488 Patent”).

[True and correct copy of the ‘488 Patent is attached hereto as Exhibit A.]

**THE PARTIES**

2. Plaintiff is a limited liability company, organized and existing under the laws of Texas with its principal place of business in this District.

3. Upon information and belief, Defendant Sony is a corporation organized and existing under the laws of the state of New York. Upon information and belief, Sony’s principal place of

business is located in New York, New York. Sony may be served through its registered agent for service of process, Corporation Service Company, 80 State Street, Albany, New York 12207-2543.

#### **JURISDICTION AND VENUE**

4. This Court has jurisdiction over the subject matter of this action pursuant to 28 U.S.C. §§ 1331 and/or 1338.

5. This Court has personal jurisdiction over the Defendant. Defendant has conducted and does conduct business within the State of Texas, including within this District. Defendant offers for sale, sells, and advertises its products and services within the State of Texas, including within this District. Defendant has committed the tort of patent infringement within the State of Texas, including within this District.

6. Venue is proper in this Court pursuant to 28 U.S.C. §§ 1391 and/or 1400.

#### **OPERATIVE FACTS**

##### **THE '488 PATENT**

7. PME is the owner by assignment of all right, title, and interest in the '488 Patent.

8. The '488 Patent describes a novel method and device for managing a cache containing data that has not been committed to persistent storage. The invention determines when to flush cache lines containing such uncommitted data. The device flushes the data when the device determines that its system state is idle. This state is based upon at least two of the following indicators: (i) CPU idle percentage, (ii) data bus busyness percentage, (iii) percentage of dirty lines, and (iv) I/Os per second.

9. Claim 8 of the '488 Patent provides:

8. In a system having a host computer and a mass storage device, a mass storage controller comprising:

- a) an input/output interface for permitting communication between the host computer, the mass storage controller, and the mass storage device;
- b) a cache having a number of cache lines, some of which cache lines may include dirty data; and
- c) an input/output management controller, the input output management controller including
  - i) means for determining whether a state of a system is idle based on at least two indicators including (i) a host CPU idle percentage, (ii) data bus busyness percentage, (iii) percentage of dirty lines, and (iv) I/Os per second; and
  - (ii) means for flushing a line of the cache if the state of the system is determined to be idle.

‘488 Patent, Col. 7. 1.63-Col. 8, 1.12.

#### THE INFRINGING PRODUCTS

10. Defendant Sony, within the United States, manufactures, uses, offers for sale, or sells mobile devices, including, but not limited to, the Sony VAIO S Series 15 laptop, with the Intel Core i7 processor and Windows 8 (the “Sony Computers”) that, among other things, operates in write-back mode creating cache data that has not been committed to persistent memory. The Sony Computers flush this data when the processor’s System Agent, in conjunction with Windows 8, determines that the state of the system is idle. To determine the idle state, the System Agent and Windows 8 use the following indicators: processor idle demote threshold; and I/Os per second and expected I/Os per second.

11. The Sony Computers practices each limitation set forth in at least claim 8 of the '488 Patent.

12. Defendant Sony does not have a license or other authorization to practice the claims set forth in the '488 Patent.

13. All conditions precedent to the assertion of the claims in this Complaint have been satisfied or waived.

COUNT ONE

SONY'S INFRINGEMENT OF THE '488 PATENT

14. PME incorporates by reference as if fully set forth herein the averments contained within Paragraphs 1-13, above.

15. By reason of some or all of the foregoing, Defendant Sony has infringed at least claim 8 of the '488 Patent.

**PRAYER FOR RELIEF**

16. By reason of some or all of the foregoing, PME has suffered damages as the direct and proximate result of Defendant Sony's infringement of the '488 Patent.

WHEREFORE, PME prays that this Court:

- (1) Enter judgment in favor of PME and against Defendant Sony for infringement of the '488 Patent;
- (2) Award damages to PME in an amount to be proven at trial for infringement of the '488 Patent, pursuant to 35 U.S.C. § 284, including pre-judgment and post-judgment interest; and
- (3) Award PME such other and further relief as the Court deems just and proper, premises considered.

August 19, 2013

Respectfully submitted,

By: /s/Andrew W. Spangler  
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